



State of Utah

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

Department of Administrative Services

KIMBERLY K. HOOD
Executive Director

Division of Facilities Construction and Management

DAVID G. BUXTON
Director

ADDENDUM No. 1

Date: December 15, 2008

To: Commercial Mechanical Systems & Service
KOH Mechanical Contractors
Mechanical Service & Systems, Inc
Ralph Tye & Sons, Inc.

From: Craig Wessman, Project Manager, DFCM

Reference: Radiant Heaters and HVAC Addition – Maintenance Building
Department of Corrections – Draper, Utah
DFCM Project No. 06139100

Subject: **Addendum No. 1**

Pages	Addendum Cover Sheet	1 page
	<u>Engineers Addendum (Spec/Drawing Clarifications)</u>	<u>6 pages</u>
	Total	7 pages

Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

1.1 **SCHEDULE CHANGES:** None

1.2 **GENERAL ITEMS:** See attached Engineer's Addendum for Specification and Drawing Clarifications.

ADDENDUM

Project Name: Utah Department of Corrections Maintenance
Radiant Heaters HVAC addition

Addendum No.: 1

DFCM Project # 6139100

Date: 12-12-08

From: WHW Engineering Inc
8619 South Sandy Parkway
Sandy, Utah 84070
Phone (801) 466-4021 Fax (801) 466-8536

To: All Bidders

This Addendum forms and becomes a part of the Contract Documents and modifies the original Bidding Documents dated October 2008 as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 2 pages, 2 revised drawings, and 2 record drawings from the original building.

I - CHANGES TO PRIOR ADDENDA: NA

II - CHANGES TO BIDDING REQUIREMENTS: None

III - CHANGES TO AGREEMENT & OTHER CONTRACT FORMS: None

IV – CHANGES/CLARIFICATIONS TO CONDITIONS OF THE CONTRACT: None

V - CHANGES/CLARIFICATIONS TO SPECIFICATIONS:

Item V-1. Specification 15738 section 2.1 shall be modified as follows

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Mitsubishi M-Series heat pump

VI - CHANGES/CLARIFICATIONS TO DRAWINGS:

Item VI-1. Provide split system heat pump for interior office. See updated sheets ME 101A ME 601A.

Item VI-2. Provide two 1 inch additional conduits underground.; bore at same time as gas line, parallel to gas line. See updated sheet ME 101A.

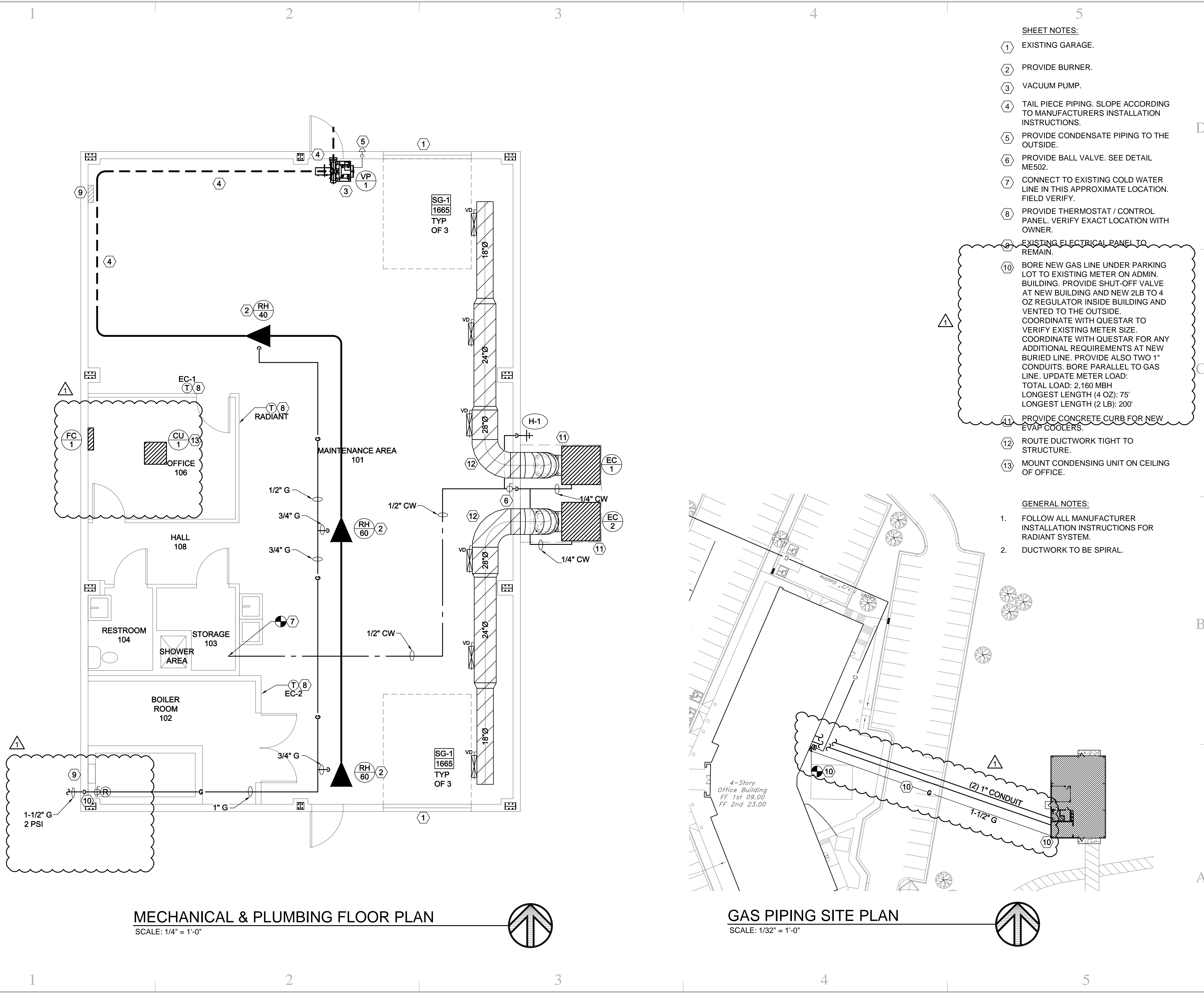
Item VI-3. New underground gas line shall be sized large enough to accommodate potential future boiler. Provide gas regulator inside building. See updated sheet ME 101A.

Item VI-4. Contractor shall field verify all existing site utilities, including, water, sewer sand/oil line, electrical, storm drains, etc. See attached record drawings C1.0 and E-07 from previous project for reference only.

Item VI-5. Sheet ME 101: Provide power and all other electrical components as necessary for new equipment. Tie into existing electrical panel at northwest corner of maintenance building. All electrical components shall comply with the most current NEC code and the most

current DFCM design and construction standards, including a minimum three quarter inch conduit for all wiring.

End of Addendum

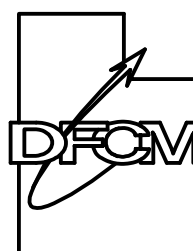


SHEET NOTES:

- EXISTING GARAGE.
- PROVIDE BURNER.
- VACUUM PUMP.
- TAIL PIECE PIPING. SLOPE ACCORDING TO MANUFACTURERS INSTALLATION INSTRUCTIONS.
- PROVIDE CONDENSATE PIPING TO THE OUTSIDE.
- PROVIDE BALL VALVE. SEE DETAIL ME502.
- CONNECT TO EXISTING COLD WATER LINE IN THIS APPROXIMATE LOCATION. FIELD VERIFY.
- PROVIDE THERMOSTAT / CONTROL PANEL. VERIFY EXACT LOCATION WITH OWNER.
- EXISTING ELECTRICAL PANEL TO REMAIN.
- BORE NEW GAS LINE UNDER PARKING LOT TO EXISTING METER ON ADMIN. BUILDING. PROVIDE SHUT-OFF VALVE AT NEW BUILDING AND NEW 2LB TO 4 OZ REGULATOR INSIDE BUILDING AND VENTED TO THE OUTSIDE. COORDINATE WITH QUESTAR TO VERIFY EXISTING METER SIZE. COORDINATE WITH QUESTAR FOR ANY ADDITIONAL REQUIREMENTS AT NEW BURIED LINE. PROVIDE ALSO TWO 1" CONDUITS. BORE PARALLEL TO GAS LINE. UPDATE METER LOAD: TOTAL LOAD: 2,160 MBH LONGEST LENGTH (4 OZ): 75' LONGEST LENGTH (2 LB): 200'
- PROVIDE CONCRETE CURB FOR NEW EVAP COOLERS.
- ROUTE DUCTWORK TIGHT TO STRUCTURE.
- MOUNT CONDENSING UNIT ON CEILING OF OFFICE.

GENERAL NOTES:

- FOLLOW ALL MANUFACTURER INSTALLATION INSTRUCTIONS FOR RADIANT SYSTEM.
- DUCTWORK TO BE SPIRAL.

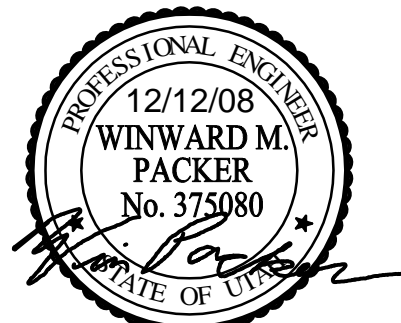


BUILDING NAME:

PROJECT # 06139100
DRAPER PRISON
MAINTENANCE BUILDING
HVAC ADDITION

PROJECT TITLE:

DRAPER PRISON
MAINTENANCE BUILDING
HVAC ADDITION



12-11-08 ADDENDUM 1

MARK DATE DESCRIPTION
ISSUE TYPE: BID SET

ISSUE DATE: DEC 12, 2008

DFCM PROJECT NO: 06139100
CAD PROJECT NO: -
CAD DWG FILE:
DRAWN BY: STAFF
CHK'D BY: WP
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SHEET TITLE

**MECHANICAL AND
PLUMBING FLOOR PLAN**

SHEET NUMBER

ME101A

SHEET OF

1

2

3

4

5

HEAT PUMP CONDENSING UNIT SCHEDULE

SYMBOL	AREA SERVED	TONS	MCA	MOCP	WEIGHT	MANUF. & MODEL #	SCHEDULE NOTES
<div>CU1</div>	OFFICE	1	12	15 A	85 LBS	mitsubishi muz-A12NA	1,2,3,4,5

1. REFRIGERANT R410A.

2. AT DESIGN CONDITIONS AND 95° F EAT.

3. CONDENSING UNIT SYMBOLS CORRESPOND WITH FURNACE SYMBOLS, EXCEPT AS NOTED.

4. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.

5. ELECTRIC SERVICE: 208/1Ø/60HZ

HEAT PUMP WALL MOUNTED UNIT SCHEDULE

ITEM NO.	MANUFACTURER AND MODEL NO.	MIN HEATING MBH	MIN COOLING MBH	ELECTRICAL		WEIGHT	NOTES
				MCA	V-Ø-Hz		
<div>FC1</div>	mitsubishi MSZ-A12NA	5.2	5.7	1.2 A	208-1-60	25 LBS	1,2,3,4

1. R410A REFRIGERANT

2. PROVIDE CONDENSATE PUMP. ROUTE CONDENSATE TO OUTSIDE.

3. UNIT SHALL BE WALL MOUNTED. FIELD VERIFY EXACT LOCATION.

4. PROVIDE THERMOSTAT.

RADIANT HEATER SCHEDULE

SYMBOL	BTUH BURNER	DESCRIPTION	ELECTRICAL			MANUFACTURER	NOTES
			HP	V	AMPS		
<div>RH40</div>	40,000	BURNER	-	120	0.3	ROBERTS-GORDON	2
<div>RH60</div>	60,000	BURNER	-	120	0.3	ROBERTS-GORDON	2
<div>VP1</div>	N/A	VACUUM PUMP	3/4	120	6.6	ROBERTS-GORDON	1,3,4

1. PROVIDE WITH CONTROL PANEL AND THERMOSTAT PER BRANCH AS SHOWN ON DRAWINGS.

2. RADIANT PIPE SHALL BE 4" HEAT TREATED ALUMINIZED TUBING AND TAILPIPE SHALL BE 4" PORCELAIN COATED TUBING, ALUMINUM REFLECTORS , HANGERS TUBE COUPLINGS.

3. 4" EXHAUST TERMINATION. REUSE EXISTING PENETRATIONS THROUGH STRUCTURE.

4. PROVIDE WITH THERMOSTAT (55° - 85° RANGE).

EVAPORATIVE COOLER SCHEDULE

SYMBOL	PUMP				CFM	EXTERNAL SP	ROOF OR WALL OPENING	FAN					MAKE & MODEL
	W	Ø	HERTZ	VOLTS				HP	PHASE	HERTZ	VOLT	SPEED	
<div>EC1</div>	73	1	60	230	5000	0.3	WALL	1	1	60	230	2	85 SD
<div>EC2</div>	73	1	60	230	5000	0.3	WALL	1	1	60	230	2	85 SD

DIFFUSER SCHEDULE

SYMBOL	TYPE	MAX CFM	FACE SIZE	NECK SIZE	CEILING TYPE	BLOW	PATTERN	SCHEDULE NOTES
<div>SD-1CFM</div>	DUCT MOUNTED	2000	32X12	32X12	N/A	1-WAY	<div></div>	1,2,3

1. MAXIMUM NC 25 AT CFM LISTED.

2. PROVIDE TRANSITION TO DIFFUSER NECK SIZE AS REQUIRED TO DUCT WORK SHOWN ON PLAN.

3. DIFFUSER SHALL BE PRICE MODEL ARDR OR EQUAL BY APPROVED MANUFACTURER IN SPECIFICATIONS.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	INDIVIDUAL LINE SIZES					REMARKS
		TRAP	WASTE	VENT	COLD WATER	HOT WATER	
<div>H-1</div>	HYDRANT	-	-	-	1/2"	-	KEYED. FREEZE PROOF.

State of Utah

Department of Administrative Services

DFCM

Division of Facilities Construction & Management

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WHW

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PROFESSIONAL MECHANICAL ENGINEERING

8619 Sandy Parkway Suite 101

SANDY, UTAH 84070

(801)468-4021, FAX 468-8536

EMAIL: excellence@whw-engineering.com

BUILDING NAME:

PROJECT # 06139100

DRAPER PRISON

MAINTENANCE BUILDING

HVAC ADDITION

PROJECT TITLE:

DRAPER PRISON

MAINTENANCE BUILDING

HVAC ADDITION

12/12/08

WINWARD M. PACKER

No. 375980

STATE OF UTAH

12-11-08

ADDENDUM 1

MARK

DATE

DESCRIPTION

ISSUE TYPE: BID SET

ISSUE DATE: DEC 12, 2008

DFCM PROJECT NO: 06139100

CAD PROJECT NO: -

CAD DWG FILE:

DRAWN BY: STAFF

CHK'D BY: WP

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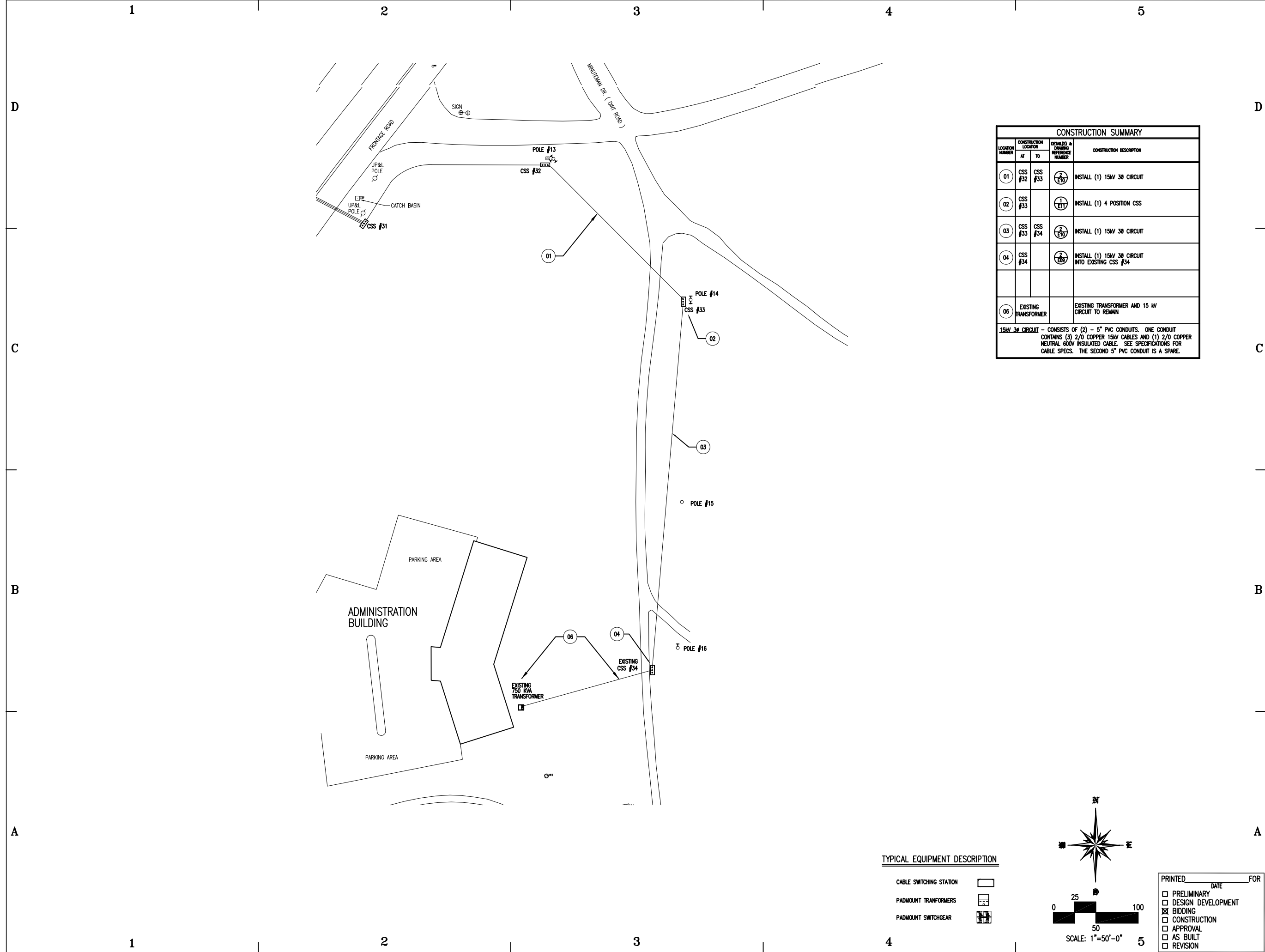
SHEET TITLE

MECHANICAL SCHEDULES


SHEET NUMBER

ME601A


SHEET OF



CONSTRUCTION SUMMARY				
LOCATION NUMBER	CONSTRUCTION LOCATION		DETAILS & DRAWING REFERENCE NUMBER	CONSTRUCTION DESCRIPTION
	AT	TO		
01	CSS #32	CSS #33	2 ETD	INSTALL (1) 15KV 3Ø CIRCUIT
02	CSS #33		1 ETD	INSTALL (1) 4 POSITION CSS
03	CSS #33	CSS #34	2 ETD	INSTALL (1) 15KV 3Ø CIRCUIT
04	CSS #34		2 ETD	INSTALL (1) 15KV 3Ø CIRCUIT INTO EXISTING CSS #34
06	EXISTING TRANSFORMER			EXISTING TRANSFORMER AND 15 KV CIRCUIT TO REMAIN
15KV 3Ø CIRCUIT - CONSISTS OF (2) - 5" PVC CONDUITS. ONE CONDUIT CONTAINS (3) 2/0 COPPER 15KV CABLES AND (1) 2/0 COPPER NEUTRAL 600V INSULATED CABLE. SEE SPECIFICATIONS FOR CABLE SPECS. THE SECOND 5" PVC CONDUIT IS A SPARE.				



State of Utah-Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
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CONSULTING ENGINEERS
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MIDVALE, UTAH 84047
BUS. (801) 255-1111 FAX 566-0088

DEPARTMENT OF CORRECTIONS

DRAPER, UTAH

DRAPER PRISON
ADMIN/ACADEMY
UNDERGROUND POWER
UPGRADE

STATE PROPERTY ID. #-
DFCM PROJECT #06139100

A		ISSUED FOR BID
MARK	DATE	DESCRIPTION
ISSUE DATE:		
PROJECT NO:		167-004
CAD DWG FILE:		
DRAWN BY:		NN
CHECKED BY:		CJH

SHEET TITLE

NEW SITE FACILITY
ELECTRIC-
SHEET 2

16-07
SHEET 7 OF 11